

CLAIMS

1. An updating system of a music database provided with

5 a transmission apparatus having
a transmission use music database storing music database information comprising identification information for identifying recording media and music information corresponding to that identification information and

10 a broadcast function unit for broadcasting said music database information from said transmission use music database as multiplex information multiplexed on a broadcast wave and

15 a terminal including a reception function unit for receiving a broadcast wave on which the music database information is multiplexed broadcast from the broadcast function unit, an extraction function unit for extracting the music database information from the broadcast wave received by the reception function unit, and an update function unit for storing the music database information extracted by the extraction function unit in the reception side music database.

2. An updating system of music database as set forth in claim 1, wherein the transmission apparatus has
25 a selection/collection function unit which cooperates with said transmission use music database and selects and collects the music database information to be stored there.

3. An updating system of a music database as set forth in claim 2, wherein the selection/collection
30 function unit selects music database information based on various popularity ranking information from various music providers.

4. An updating system of a music database as set forth in claim 2, wherein the selection/collection
35 function unit selects the music database information based on the frequency of broadcasts at various music

providers or new music release information.

5 5. An updating system of a music database as set forth in claim 2, wherein the selection/collection function unit selects the music database information based on power play information generated among cooperating music providers or new music release information.

10 6. An updating system of a music database as set forth in any one of claims 2 to 5, wherein said transmission apparatus is provided with a database source continuously editing and registering new music to construct a general music database and wherein the selection/collection function unit collects the music database information from the database source.

15 7. An updating system of a music database as set forth in any one of claims 1 to 6, wherein the broadcast function unit transmits all of the music database information of the transmission use music database or the difference of the music database information newly added in the transmission use music database as multiplex information multiplexed on a predetermined broadcast wave.

25 8. An updating system of a music database as set forth in any one of claims 1 to 7, wherein the broadcast function unit transmits the music database information multiplexed on a predetermined broadcast wave repeatedly at all times or periodically at predetermined times.

30 9. An updating system of a music database as set forth in any one of claims 1 to 8, wherein the broadcast function unit is provided with a conversion function unit for converting the music database information to be transmitted to a format for multiplexing on a predetermined broadcast wave.

35 10. An updating system of a music database as set forth in any one of claims 1 to 8, wherein the reception function unit receives the multiplexed broadcast wave locked at the transmission apparatus side, unlocks the

multiplexed broadcast wave by a key held by the terminal, and outputs the multiplexed broadcast wave to the music database information.

5 11. An updating system of a music database as set forth in any one of claims 1 to 9, wherein

the reception function unit receives the multiplexed broadcast wave with the music database information locked at the transmission apparatus side, and

10 the extraction function unit unlocks the music database information by a key held by the terminal to extract the music database information.

12. An updating system of a music database as set forth in claim 9, wherein the extraction function unit
15 pulls out the music database information multiplexed on a predetermined broadcast wave by a predetermined format in accordance with that format.

13. An updating system of a music database as set forth in any one of claims 1 to 12, wherein when
20 receiving all of the music database information from the transmission use music database of the transmission apparatus side, the update function unit rewrites the reception side music database with all that music database information received from the transmission use
25 music database of the transmission apparatus side.

14. An updating system of a music database as set forth in any one of claims 1 to 12, wherein when
receiving all of the music database information from the transmission side music database on the transmission
30 apparatus side, the update function unit finds the unrecorded music database information from it and stores this in the reception side music database as the newly added difference in music database information.

15. An updating system of a music database as set
35 forth in any one of claims 1 to 12, wherein when receiving the newly added and collected difference in music database information from the transmission use

music database of the transmission apparatus side, the update function unit adds and stores the difference in music database information in the reception side music database.

5 16. An updating system of a music database as set forth in any one of claims 13 to 15, wherein the update function unit acquires once the music database information or difference in music database information broadcast repeatedly at all times or periodically at
10 predetermined times from the transmission apparatus side, detects if the information is the same as the already received information, and, when not, stores it in the reception side music database.

15 17. An updating system of a music database as set forth in any one of claims 1 to 16, wherein the reception side music database enables a search for corresponding music information based on identification information of the recording media played.

20 18. A transmission apparatus of a music database including a transmission use music database storing music database information comprising identification information for identifying recording media and music information corresponding to that identification information and a broadcast function unit for
25 broadcasting said music database information from said transmission use music database as multiplex information multiplexed on a broadcast wave.

30 19. A transmission apparatus of a music database as set forth in claim 18, further having a selection/collection function unit which cooperates with said transmission use music database and selects and collects the music database information to be stored there.

35 20. A transmission apparatus of a music database as set forth in claim 19, wherein the selection/collection function unit selects music database information based on various popularity ranking information from various music

providers.

21. A transmission apparatus of a music database as set forth in claim 19, wherein the selection/collection function unit selects the music database information based on the frequency of broadcasts at various music providers or new music release information.

22. A transmission apparatus of a music database as set forth in claim 19, wherein the selection/collection function unit selects the music database information based on power play information generated among cooperating music providers or new music release information.

23. A transmission apparatus of a music database as set forth in any one of claims 19 to 22, wherein said apparatus is provided with a database source continuously editing and registering new music to construct a general music database, and the selection/collection function unit collects the music database information from the database source.

24. A transmission apparatus of a music database as set forth in any one of claims 18 to 23, wherein the broadcast function unit transmits all of the music database information of the transmission use music database or the difference of the music database information newly added in the transmission use music database as multiplex information multiplexed on a predetermined broadcast wave.

25. A transmission apparatus of a music database as set forth in any one of claims 18 to 24, wherein the broadcast function unit transmits the music database information multiplexed on a predetermined broadcast wave repeatedly at all times or periodically at predetermined times.

26. A transmission apparatus of a music database as set forth in any one of claims 18 to 24, wherein the broadcast function unit is provided with a conversion function unit for converting the music database

information to be transmitted to a format for multiplexing on a predetermined broadcast wave.

27. A terminal having a function of updating a music database including:

5 a reception side music database enabling a search for corresponding music information based on identification information of the recording media to be played,

10 a reception function unit for receiving a broadcast wave on which the music database information broadcast from the broadcast function unit is multiplexed as multiplex information,

15 an extraction function unit for extracting the music database information from the broadcast wave received by the reception function unit, and

 an update function unit for storing the music database information extracted by the extraction function unit in the reception side music database.

20 28. A terminal having a function of updating a music database as set forth in claim 27, wherein the reception function unit receives the multiplexed broadcast wave locked at the transmission apparatus side, unlocks the multiplexed broadcast wave by a key held by the terminal, and outputs the multiplexed broadcast wave
25 to the music database information.

29. A terminal having a function of updating a music database as set forth in claim 27, wherein

30 the reception function unit receives the multiplexed broadcast wave with the music database information locked at the transmission apparatus side, and

 the extraction function unit unlocks the music database information by a key held by the terminal to extract the music database information.

35 30. A terminal having a function of updating a music database as set forth in any one of claims 27 to 29, wherein the extraction function unit pulls out the

music database information multiplexed on a predetermined broadcast wave by a predetermined format in accordance with that format.

5 31. A terminal having a function of updating a music database as set forth in any one of claims 27 to 30, wherein the update function unit rewrites the received music database information in the reception side music database or stores it in the reception side music database.

10 32. A terminal having a function of updating a music database as set forth in any one of claims 27 to 30, wherein the update function unit finds the unrecorded music database information from the received music database information and stores this in the reception
15 side music database as the newly added difference in music database information.

 33. A terminal having a function of updating a music database as set forth in claim 31 or 32, wherein the update function unit acquires once the music database
20 information or difference in music database information broadcast repeatedly at all times or periodically at predetermined times from the transmission apparatus side, detects if the information is the same as the already received information, and, when not, stores it in the
25 reception side music database.

 34. An updating method of a music database provided with a transmission apparatus and terminal, comprising,
 in said transmission apparatus,
 a step of broadcasting music database
30 information comprised of identification information identifying recording media stored in a transmission use music database and music information corresponding to said identification information as multiplex information multiplexed on a predetermined broadcast wave and,
35 at said terminal,
 a step of receiving the predetermined broadcast wave on which said music database information

has been multiplexed from said transmission apparatus,
a step of extracting the music database
information from the received predetermined broadcast
wave, and

5 a step of storing the extracted music
database information in a reception side music database.

35. An updating method of a music database as set
forth in claim 34, wherein the transmission apparatus has
a selection/collection step of cooperating with said
10 transmission use music database and selecting and
collecting the music database information to be stored
there.

36. An updating method of a music database as set
forth in claim 35, wherein the selection/collection step
15 selects music database information based on various
popularity ranking information from various music
providers.

37. An updating method of a music database as set
forth in claim 35, wherein the selection/collection step
20 selects the music database information based on the
frequency of broadcasts at various music providers or new
music release information.

38. An updating method of a music database as set
forth in claim 35, wherein the selection/collection step
25 selects the music database information based on power
play information generated among cooperating music
providers or new music release information.

39. An updating method of a music database as set
forth in any one of claims 35 to 38, wherein the
30 selection/collection step cooperates with a database
source which continuously edits and registers new music
to build a general music database.

40. An updating method of a music database as set
forth in any one of claims 34 to 39, wherein the
35 broadcast step transmits all of the music database
information of the transmission use music database or the
difference of the music database information newly added

in the transmission use music database as multiplex information multiplexed on a predetermined broadcast wave.

5 41. An updating method of a music database as set forth in any one of claims 34 to 40, wherein the broadcast step transmits the music database information multiplexed on a predetermined broadcast wave repeatedly at all times or periodically at predetermined times.

10 42. An updating method of a music database as set forth in any one of claims 34 to 41, wherein the broadcast step is provided with a conversion function unit for converting the music database information to be transmitted to a format for multiplexing on a predetermined broadcast wave.

15 43. An updating method of a music database as set forth in any one of claims 34 to 42, wherein the reception step receives the multiplexed broadcast wave locked at the transmission apparatus side, unlocks the multiplexed broadcast wave by a key held by the terminal, and outputs the multiplexed broadcast wave to the music database information.

20 44. An updating method of a music database as set forth in any one of claims 34 to 42, wherein
 the reception step receives the
25 multiplexed broadcast wave with the music database information locked at the transmission apparatus side, and

 the extraction step unlocks the music database information by a key held by the terminal to
30 extract the music database information.

 45. An updating step of a music database as set forth in claim 42, wherein the extraction step pulls out the music database information multiplexed on a predetermined broadcast wave by a predetermined format in
35 accordance with that format.

 46. An updating method of a music database as set forth in any one of claims 34 to 45, wherein when

receiving all of the music database information from the transmission use music database of the transmission apparatus side, the update step rewrites the reception side music database with all that music database information received from the transmission use music database of the transmission apparatus side.

47. An updating method of a music database as set forth in any one of claims 34 to 45, wherein when receiving all of the music database information from the transmission side music database on the transmission apparatus side, the update step finds the unrecorded music database information from it and stores this in the reception side music database as the newly added difference in music database information.

48. An updating method of a music database as set forth in any one of claims 34 to 45, wherein when receiving the newly added and collected difference in music database information from the transmission use music database of the transmission apparatus side, the update step adds and stores the difference in music database information in the reception side music database.

49. An updating method of a music database as set forth in any one of claims 46 to 48, wherein the update step acquires once the music database information or difference in music database information broadcast repeatedly at all times or periodically at predetermined times from the transmission apparatus side, detects if the information is the same as the already received information, and, when not, stores it in the reception side music database.

50. An updating method of a music database as set forth in any one of claims 34 to 49, wherein the reception side music database enables a search for corresponding music information based on identification information of the recording media played.

51. A transmission method of a music database of a

transmission apparatus transmitting music database
information, including a step of broadcasting music
database information comprising identification
information for identifying recording media stored in a
5 transmission use music database and music information
corresponding to that identification information as
multiplex information multiplexed on a predetermined
broadcast wave.

52. A transmission method of a music database as
10 set forth in claim 51, further having a
selection/collection step of cooperating with said
transmission use music database and selecting and
collecting the music database information to be stored
there.

15 53. A transmission method of a music database as
set forth in claim 52, wherein the selection/collection
step is performed based on various popularity ranking
information from various music providers.

20 54. A transmission method of a music database as
set forth in claim 52, wherein the selection/collection
step is performed based on the frequency of broadcasts at
various music providers or new music release information.

25 55. A transmission method of a music database as
set forth in claim 52, wherein the selection/collection
step is performed based on power play information
generated among cooperating music providers or new music
release information.

30 56. A transmission method of a music database as
set forth in any one of claims 52 to 55, wherein the
selection/collection step is performed in cooperation
with a database source continuously editing and
registering new music to construct a general music
database.

35 57. A transmission method of a music database as
set forth in any one of claims 51 to 56, wherein the
broadcast step transmits all of the music database
information of the transmission use music database or the

difference of the music database information newly added in the transmission use music database as multiplex information multiplexed on a predetermined broadcast wave.

5 58. A transmission method of a music database as set forth in any one of claims 34 to 57, wherein the broadcast step transmits the music database information multiplexed on a predetermined broadcast wave repeatedly at all times or periodically at predetermined times.

10 59. A transmission method of a music database as set forth in any one of claims 51 to 58, wherein the broadcast step includes a conversion step of converting the music database information to be transmitted to a format for multiplexing on a predetermined broadcast
15 wave.

 60. An updating method of a music database of a terminal having a reception side music database enabling a search for corresponding music information based on identification information of recording media to be
20 played, including

 a step of receiving a predetermined broadcast wave on which the music database information is multiplexed,

 a step of extracting the music database
25 information from the received predetermined broadcast wave, and

 a step of storing the extracted music database information in the reception side music database.

30 61. An updating method of a music database of a terminal as set forth in claim 60, wherein the reception step receives the multiplexed broadcast wave locked at the transmission side and unlocks the multiplexed broadcast wave by a key held by the terminal.

35 62. An updating method of a music database of a terminal as set forth in claim 60, wherein
 the reception step receives the

multiplexed broadcast wave with the music database information locked at the transmission apparatus side, and

5 the extraction step unlocks the music database information by a key held by the terminal to extract the music database information.

63. An updating method of a music database of a terminal as set forth in any one of claims 60 to 62, wherein the extraction step pulls out the music database information multiplexed on a predetermined broadcast wave
10 by a predetermined format in accordance with that format.

64. An updating method of a music database of a terminal as set forth in any one of claims 60 to 63, wherein the update step rewrites the received music database information in the reception side music database or stores it in the reception side music database.
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65. An updating method of a music database of a terminal as set forth in any one of claims 60 to 63, wherein the update step finds the unrecorded music database information from the received music database information and stores this in the reception side music database as the newly added difference in music database information.
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66. An updating method of a music database of a terminal as set forth in claim 64 or 65, wherein the update step acquires once the music database information or difference in music database information broadcast repeatedly at all times or periodically at predetermined times from the transmission apparatus side, detects if
25 the information is the same as the already received information, and, when not, stores it in the reception side music database.
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